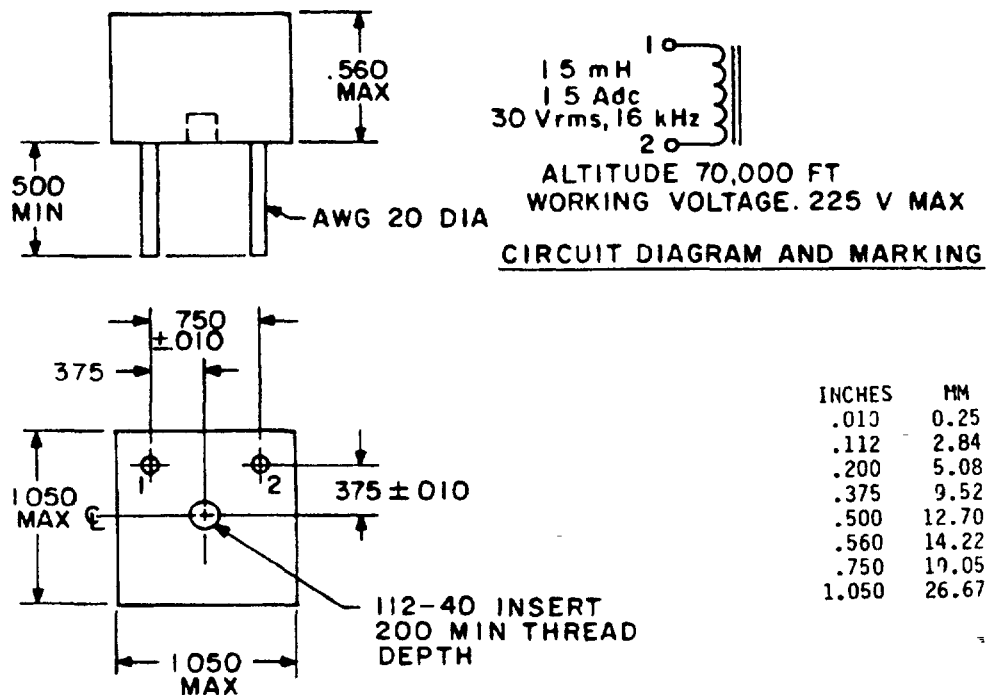


MILITARY SPECIFICATION SHEET
 TRANSFORMERS AND INDUCTORS
 (AUDIO, POWER AND HIGH-POWER PULSE),
 INDUCTOR, POWER, TF5504ZZ

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The complete requirements for acquiring the inductor described herein shall consist of this specification and the latest issue of MIL-T-27.



NOTES.

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Marking shall be on the side of the case.

FIGURE 1. Dimensions and configuration.

(A) denotes changes

MIL-T-27/189A

REQUIREMENTS: (When numbers in parentheses, i.e., (1-2) are used, they indicate the winding and the extreme terminals of the winding.)

Electrical ratings:

Inductance (1-2): 1.5 millihenries, minimum.

Voltage (1-2). 30 volts rms, 16 kilohertz.

Current (1-2): 1.5 amperes, dc.

DC resistance (1-2). 1.6 ohms, maximum.

Working voltage. 225 volts, maximum to ground.

Design and construction:

Dimensions and configuration: See figure 1.

Duty cycle. Continuous.

Case. Encapsulated.

Material. Epoxy.

Terminals. Pin type, tinned copper.

Height .500 inch, minimum.

Diameter: 20 AWG (0.32 inch).

① Weight. 1.5 ounces, maximum.

Operating temperature range: -55°C to +130°C.

Altitude. 70,000 feet, maximum.

Terminal strength: MIL-STD-202, method 211, test condition A, 2 pounds.

Shock (specified pulse) MIL-STD-202, method 213, test condition A.

Vibration (high frequency): MIL-STD-202, method 204.

Dielectric withstanding voltage:

At sea level 1,000 volts rms.

At reduced barometric pressure 300 volts rms.

Electrical characteristics:

Inductance. With 30 volts rms, 16 kilohertz, and 1.5 amperes dc applied to (1-2), the inductance shall be 1.5 millihenries, minimum.

Temperature rise: 30°C with 30 volts rms, 16 kilohertz, 1.5 amperes dc applied to (1-2) at an ambient temperature of 125°C, maximum.

Marking location. See figure 1.

Part number: M27/189-01.

Custodians:

Army - ER
Navy - EC
Air Force - 85

Preparing activity:

Army - ER
(Project 5950-0647)

Review activities:

Army - AR
Navy - OS, SH
Air Force - 11, 17, 99
DLA - ES

User activities:

Army - ME
Navy - AS, MC
Air Force - 19

Agent:

DLA - ES